Achievements of creative work. Mashinostroitel' no.1:32-33
Ja '60. (MIRA 13:4)

(Technological innovations)

SAMARSKIY, P.V., inzh. (Novosibirsk)

Signaling as train safety guard during car repairing. Zhel. dor. transp. 46 no.1:77 Ja '64. (MIRA 17:8)

l. Nachal'nik sluzhby vagonnogo khozyaystva Zapadno-Sibirskoy dorogi.

SAMARSKIY, P.V , inzhener (Novosibirek).

Continuous operation method of repairing railroad cars. Zhel.dor. transp.38 no.12:65-67 D '56. (MLRA 10:2)

1. Nachal'nik sluzhby vagonnogo khozyaystva Tomskoy dorogi. (Railroads--Cars--Maintenance and repair)

SAMRSKIY, P.V., inzh.

11

New equipment for tank car wash and steaming points. Zhel.dor.transp. 42 no.8:76-77 Ag '60. (MIRA 13:8)

1. Nachal'nik sluzhby vagonnogo khosyaystva Tomskoy dorogi, g. Novosibirsk.

(Tank cars -- Maintenance and repair)

ZHMUDSKIY, O. [Zhmuds'kyi, O.], doktor fiz.-matem.nauk, prof.; USIKOV, O. [Usykov, O.]; SAMARSKIX, S. [Samars'kyi, S.], kand.biolog.nauk

Editor's mail. Nauka i zhyttia 12 no.11:54-55 N '62.

1. Chlen-korrespondent AN UkrSSR (for Usikov).

(Ncience--Miscellanea)

SAMARSKIY, S. L.

SAMARSKIY, S. L. -- "Significance of the Temperature Conditions in the Development of Brooder and Hatched Birds." *(Dissertations For Degrees In Science and Engineering Defended At USSR Higher Educational Institutions)(30) Min Higher Education USSR, Kiev, 1954

SO: KNIZHNAYA LETOPIS' No 30, 23 July 1955

* For the Degree of Candidate in Biological Sciences.

SAMARSKIY, S.L.

Reproduction of the mole rat Spalax leucodon Nordmann in Odessa Province. Zool.zhur. 41 no.10:1583-1584 0 62. (MIRA 15:12)

1. State Pedagogical Institute of Cherkassk. (Odessa Province-Hole rat)

SEVAST YANOV, V.D.; SAMARSKIY, S.L. [Samars'kyi, S.L.]

Burrows of the mouse (Mas musculus hortulanus) and mole rat (Spalax leucodon) as places of the reproduction of parasitic arthropods.

Pratsi Od. Un. 152 Ser. biol. nauk no.12:54-59 162. (MIRA 17:9)

SAMARSKIY, S. Ya.

"Importance of the Temperature Regime in the Development of Bird Embryos Be

"Importance of the Temperature Regime in the Development of Bird Embryos Before Hatching and in the Development of Nestling Birds." Cand Biol Sci, Dnepropetrovsk U, Kiev, 195h. (RZhBiol, No 8, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Eduational Institutions (16).

SAMARSKIY, V. I. and TIMOFEYEVA, E. A.

"Loudspeakers for Reproduction of Hight Audio EX Frequenicies."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 2 Jun 58.

SAMARSKIY, Ya., brigadir slesarey-montazhnikov

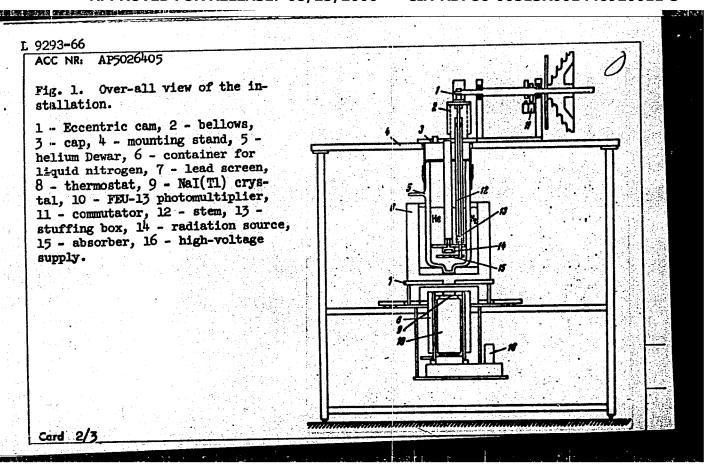
Three times faster. Na stroi. Ros. no.7:14 Jl '61. (MIRA 14:8)

1. MK No.3 tresta Vostokneftezavodmontazh. (Pipe)

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Į	9293-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/WW/GG ACC NR: AP5026405 SOURCE CODE: UR/0386/65/002/006/0269/0274 44,5 AUTHOR: Alekseyevskiy, N. Ye.; Kir'yanov, A. P.; Nizhankovskiy, V. I.; Samarskiy,	
	AUTHOR: Alekseyevskiy, in 1cs,	
	problem Akademii nauk SSSR) TITLE: Anisotropy of the Mossbauer effect in single crystals of tin at low tempera-	
	tures tures ckgperimental nov i teoreticheskoy fiziki. Pis'ma v redaktsiyu.	
	Prilozheniye, V. 2, No. 0, 1907, 2007 TOPIC TAGS: Mossbauer effect, tin, single crystal, resonance absorption, temperature	
	ABSTRACT: The authors report the results of measurements of insingle crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of tin, recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} in single crystals of Sn^{119m} recoilless 23.8-kev γ rays produced by the decay of Sn^{119m} rays	
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	kept at < 77K. The absorbers were plates with orientations [001] and [100] kept at < 77K. The apparatus and single-crystal tin enriched with Sn ¹²⁰ and containing 1.7% Sn ¹¹⁹ . The apparatus and	
	Card 1/3	
	或是快速的影响。在1995年,在1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年	1000

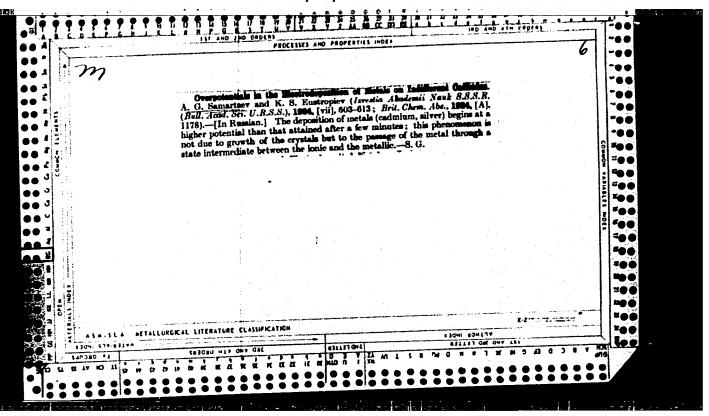
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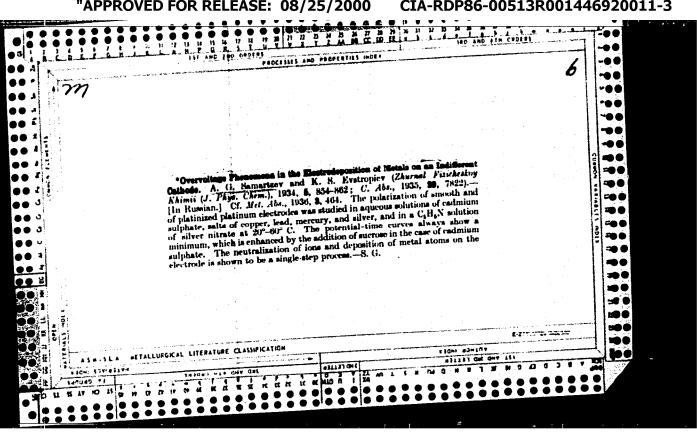
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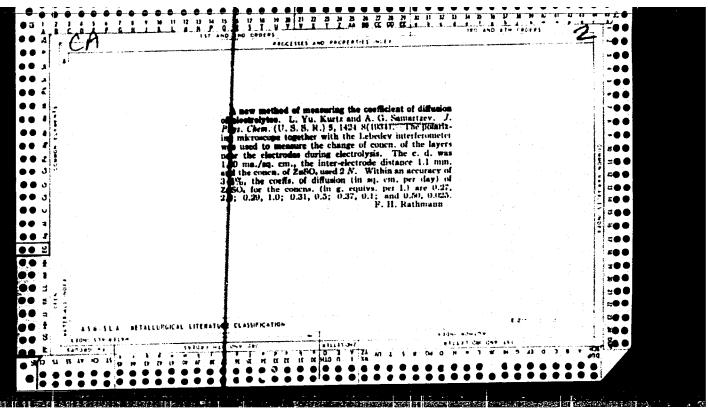
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cocedure are decure dependence rimental data by Hien, ZhETF etter instrumentablish the profit the anisotrophe region T = (scribed briefly. Typical resonance absorption curves and the temper- of the amplitude of the maximum absorption are presented. The ex- were reduced by a procedure described earlier (G. A. Bykov and Pham v. 43, 909, 1962). By using large statistics, a stronger source, tal geometry, and single-crystal samples, the authors were able to resence of anisotropy of the Mossbauer effect at 4.2K. The magnitude by was found to be (1.08 ± 0.02) , and to go through an inversion in (40 ± 5) K. The temperature dependence of the Mossbauer-effect aniso- by be attributed to an overlap of the optical and acoustical branches electrum of tin. Orig. art. has: 3 figures and 1 table.	
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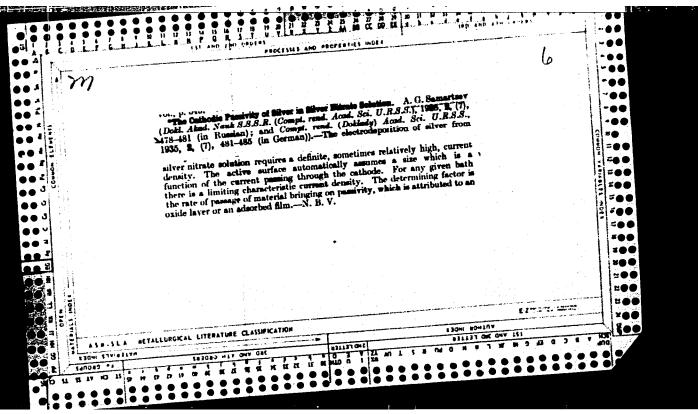
SAMARTSEV, A. (g.Penza) Accelerate the growth of shelterbelts. Zhel.dor.transp. 36 no.6:84-85 Je 155. (Windbreaks, shelterbelts, etc.)

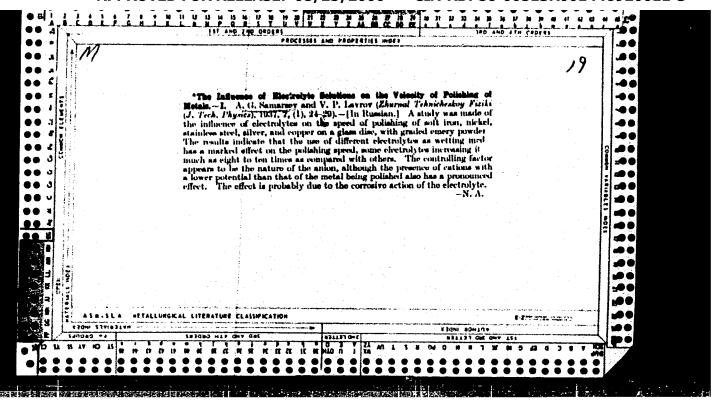


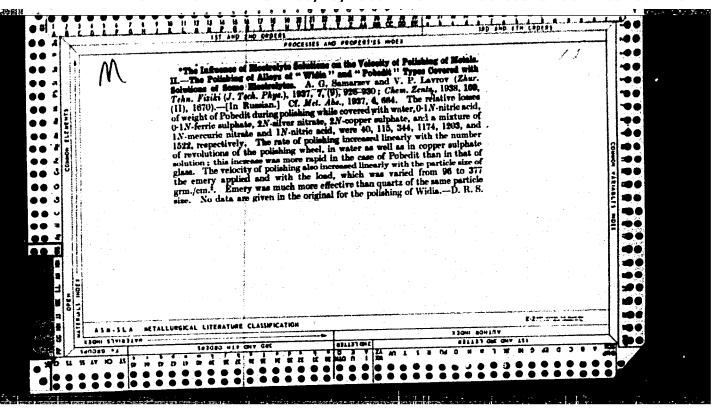


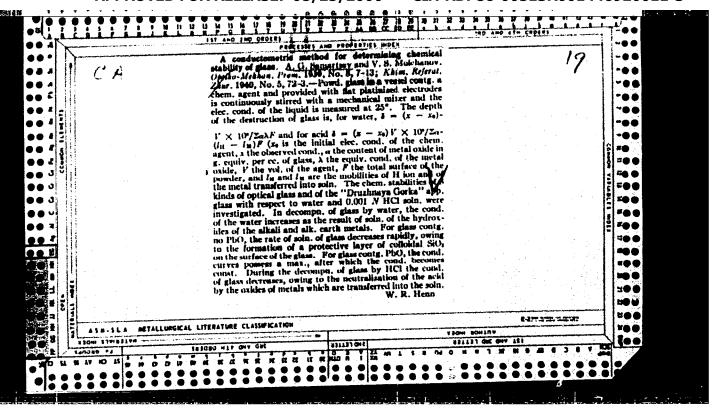
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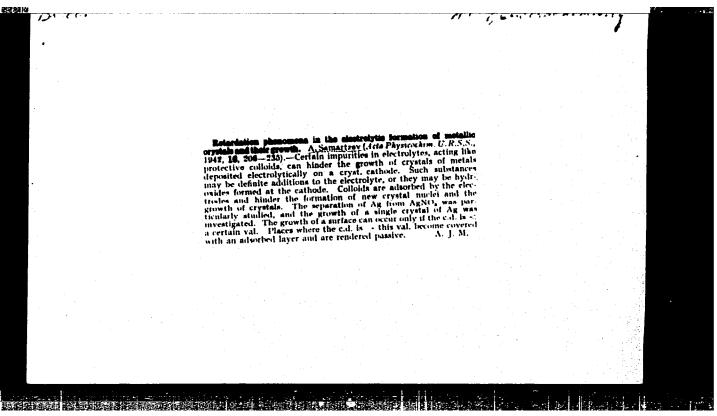




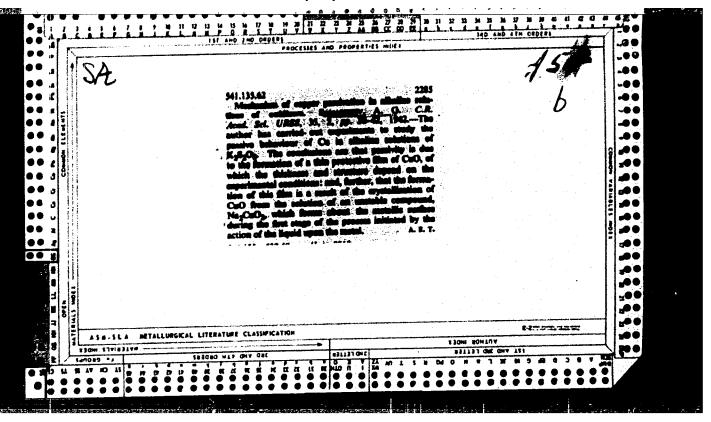


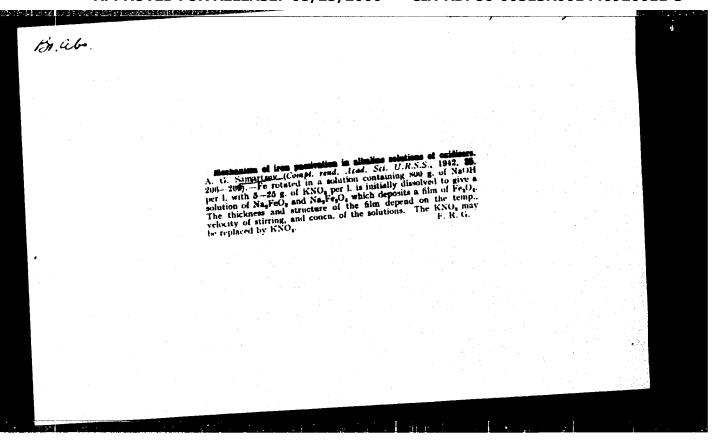


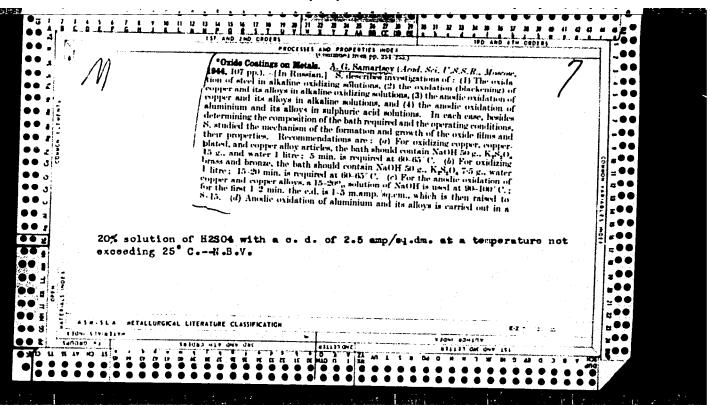


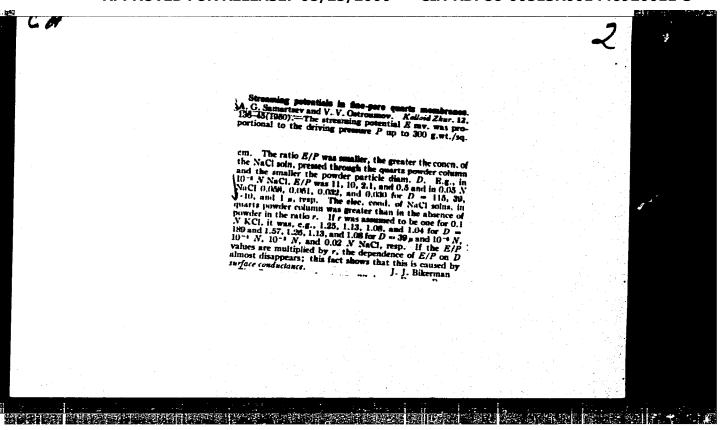


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DAMAR ISEV, 17.5.

USSR/Chemistry - Physical chemistry

Card 1/1

Pub. 151 - 1/37

Authors

Title

: Samartsev, A. G., and Levitina, Z. I.

A STATE OF THE PARTY OF THE PAR

1 Behavior of magnesium in potassium bichromate solutions

Periodical

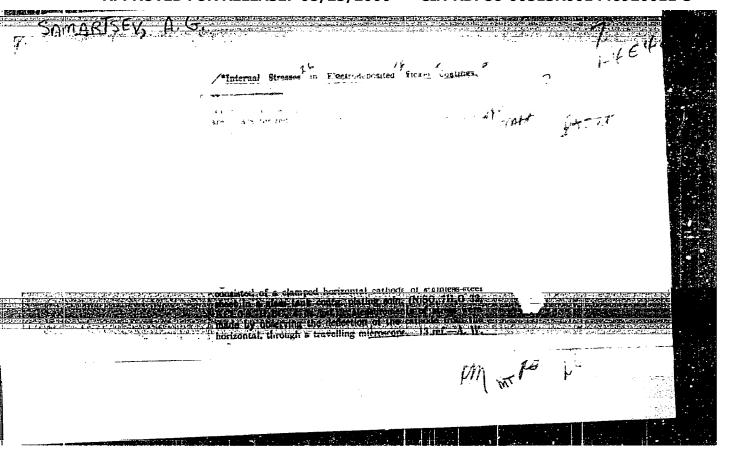
¹ Zhur. ob. khim. 24/10, 1697-1700, Oct 1954

Abstract

The rate of development of protective films on magnesium, when subjected to the effect of potassium bichromate solutions containing certain activating additions, was investigated. The passivation of Mg in K_Cr_O_7 solutions was established at room temperature and at boiling temperature. Passivity was found to be the result of the formation of a thin non-visible protective film consisting of hardly soluble components. The effect of activating salts on the passivation of the metal and the relation between the activating salts and the temperature and acidity of the solution, are explained. Four references: 2-USSR; 1-German and 1-USA (1907-1954). Graphs.

Institution: ...

Submitted : May 13, 1954



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920011-3

SAMARTSEV, A.C.

AUTHORS:

Lyzlov, Yu.V., Mechkovskaya, T.A., Samartsev, A.G.

76-12-18/27

TITLE:

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits (Vliyaniye zhelatiny na obrazovaniye elektroliticheskikh

osadkov medi).

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 12. pp.2720-2724 (USSR)

ABSTRACT:

The results of observation of the surface of a cathode during the precipitation of copper from a sulphate of electrolyte to which gelatin was added, are given here by registration of the cathodepotential-change with respect to time. The results should contribute to the clarification of the still unclear process with the formation of brilliant galvanic deposits. The observation of the micro-cathode surface during the precipitation of copper from the acid copper bath with an addition of gelatin for imparting brightness was carried out by means of a microscope. The observations show the possibility of the existence of two various states of the cathode surface. These two states can be realized simultaneously under certain conditions. In this case, the surface of the cathode is divided into two parts: an active, and a passive range. They apparently are distinguished by the properties of the adsorption layers of the colloid covering

Card 1/4

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits

76-12-18/27

them. The formation of a thick layer of adsorption, which is impermeable to the discharging ions, requires, due to the low diffusion speed and the not high concentration of the colloid substance in the solution, a certain time. If the current density is higher than the critical, then the quick renewal of the surface of the deposit prevents the formation of such a layer. The amount of critical current density required for maintaining the cathode in active state is determined by the nature of the colloid-substance, its concentration, and by the conditions under which the electrolysis is carried out. The formation of an active surface is only possible if the amount of the critical current density does not exceed the value of the limiting current for the given electrolyte. With a total current intensity, which does not suffice for maintaining the critical current density on the whole surface of the cathode, the ranges to which the access of colloids is facilitated, (e.g. due to convection currents) is passive. The passivity lasts as long as the current density in the ranges preserving the activity does not attain the critical value. A further passivity prevents the increasing polarization of concentration. The metal deposit on the passive surface is apparently

Card 2/4

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits

76-12-18/27

a totality of a great number of processes independent from each other. The depositions of the metal on the passive surface take place in various points. The microscopic projections developing impart a coarse character to the surface. These rounded projections are apparently polycrystalline formations. The increase of the deposits on the active surface takes a quite different course. Here the whole surface participates in the electrolysis. The active surface remains smooth and brilliant independent of the thicknesses of the deposited metal layer. The deposits point to a lamellar structure. The layers proceed approximately parallel to the plane of the surface. All reasons indicate that the formation of the brilliant copper deposits is in immediate context with the rhythmic character of the cathode processes depending on the lamellar structure of the metal. The detailed picture of this phenomena must still be cleared up. There are 8 figures, and 6 references, 1 of which is Slavic.

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"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920011-3

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits

76-12-18/27

SUBMITTED:

Cotober 4, 1956

AVAILABLE:

Library of Congress

Card 4/4

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SOV/81-59-10-35260

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 272 (USSR)

AUTHOR:

Samartsev, A.G.

TITLE:

Protective Coatings of Optical-Mechanical Devices Designed for Work Under

Conditions of Tropical Climate 3

PERIODICAL:

Sb. Kom-t po korrozii i zashchite metallov Vses. sov. nauchno-tekhn. o-v,

1958, Nr 3, pp 68-74

ABSTRACT:

Tests of construction materials applied in optical apparatus building, which have been carried out under tropical conditions, have shown that carbon steel without protective coatings is completely unsuitable, EI-474 steel and several other steels are sufficiently resistant if their surfaces are polished; Zn-alloys and Zn- and Cd-coatings are not recommended for use. At longlasting tests under conditions of tropical climate, on the surface of Cu and its alloys a dark film is formed, for the protection of Cu and its alloys Ni and Cr-coatings are employed. The protection of Al and its alloys is carried out by anode oxidation and chrome-plating with an intermediate Ni--layer. Thin, transparent, two-layer oxide coatings on Al make it possible to prepare mirrors with a reflection coefficient of 95 - 97%. The application

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68273 SOV/81-59-10-35260

Protective Coatings of Optical-Mechanical Devices Designed for Work Under Conditions of Tropical Climate

of Silumin casting is possible under the condition of impregnating it with bakelite varnish with preliminary evacuation, after which the usual varnish and paint coating is applied. The blackening of metals by the usual methods is not resistant in tropical climate, under these conditions the process of black nickel-plating has a great future.

V. Lukinskaya

Dard 2/2

AUTHORS:

Samartsey, A. C., Levitina, E. I.

76-32-5-9/47

TITLE:

The Cathodic Deposition of Molybdenum Sesquioxide (Katodnoye

vydeleniye polutornoy okisi molibdena)

PERIODICAL:

Zhurnal fizicheskoy k mimii, 1958, Vol. 32, Nr 5,

pp. 1023 - 1029 (USSE)

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ABSTRACT:

In the present work some characteristic features of the growth process of the cathode deposition of molybdenum sesquioxide, as well as the influence of the composition of the cathode surface, the acidity of the electrolyte and of other factors were investigated. The experiments were carried out with cathodes of various metals with on the one hand the weight of the formed precipitation and on the other hand the amount of formed hydrogen having been measured. Before the experiments the cathodes were either ground, immersed into 10% sulfuric acid at 65°C for 5 minutes (activated), or they were afterwards left in a 10% potassium bichromate solution at the boiling point for 30 minutes (passivated). The results of the experiments show that the weight increases more quickly in activated cathodes than in ground ones, while in the case of the passivated cathode a complete stoppage of the reduction process of

Card 1/3

The Cathodic Deposition of Molybdenum Sesquioxide

76-32-5-9/47

hexavalent molybdenum ions takes place. The results of the investigations of the velocity of hydrogen formation show that the activated surfaces effect the least formation of hydrogen, while it is complete in the case of passivated surfaces and no molybdenum reduction takes place; also with the activated cathodes a gradual decrease of the formation of the molybdenum sesquioxide deposition was observed. The measurement of the change of cathode polarization also showed a different course of the potential of activated and passivated electrodes, from which fact can be concluded a different composition of the surfaces. Depositions with a greatest layer thickness were obtained with zinc cathodes and activated steel electrodes, with the same conditions of electrolysis prevailing. An essential influence on the formation of the deposition is exerted by the acidity of the solution, where with a decrease of the acidity an impedance and a subsequent standstill of the molybdenum reduction takes place. The increase of the current density effects an impedance of the formation of molybdenum sesquioxide which can be avoided by a rise of temperature, an increase of the concentration of the ammonium molybdate, or by the addition

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The Cathodic Deposition of Molybdenum Sesquioxide

76-32-5-9/47

of neutral conductive salts. It was found that the depositions show a different water content corresponding to the conditions of electrolysis, and that they have, besides, a special structure as interpreted from the mentioned microphotographs, which has fine cracks, which fact is explained by the separation of water. There are 7 figures and 7 references, 1 of which is Soviet.

SUBMITTED:

November 9, 1956

1. Molybdenum oxide--Electrodeposition 2. Cathodes--Surface properties 3. Electrolytes--Properties

Card 3/3

S/081/61/000/021/039/094 B101/B147

AUTHOR:

Samartsev, A. G.

TITLE:

Some problems of protecting manufactured goods against

corrosion

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 257, abstract

21I139 (Sb. "Zashchita izdeliy ot vozdeystviya tropich.

klimata", L., 1959, 3 - 11)

TEXT: Problems of protecting manufactured goods against corrosion in tropical climate are discussed in general. Abstracter's note:

Complete translation.

Card 1/1

5 (4) AUTHORS:

Lyzlov, Yu. V., Samartsev, A. G.

sov/76-33-6-27/44

TITLE:

Internal Stressesin Electrolytic Copper Deposits

(Vnutrenniye napryazheniya v elektroliticheskikh osadkakh medi)

PERIODICAL:

Zhurnel fizicheskoy khimii, 1959, Vol 33, Nr 6,

pp 1345-1352 (USSR)

ABSTRACT:

As in the electrolytic copper precipitation from acidified copper sulphate solutions there are no secondary processes (such as a generation of hydrogen), this process is particularly favorable for the investigation of the influences of internal stress by different admixtures to the solution. Internal stresses (IS) were investigated in copper deposits (D) obtained from common copper sulphate electrolytes, and with admixtures of thiocarbamide (I) and gelatin (II). The (IS) were measured by a "contractometer" (Ref 8). Preliminary tests showed that the smallest quantities of impurity in the copper sulphate exert a strong influence on the (IS) in the copper deposit (Table). The electrolytic (D). obtained from

electrolytes without admixtures, have a compressing stress

(CS) which decreases with a rise in temperature and a reduction in current density. The structural change of (D)

Card 1/3

Internal Suresses in Electrolytic Copper Deposits

SOV/76-33-6-27/44

into a disperse grain causes a rise in (IS). Admixtures of (I) and (II) to the electrolyte effect an increase in (IS) at small quantities, a reduction of (CS), and a conversion to tensile stresses (TS) at high quantities of admixtures. The changes of (IS) by admixtures of (I) and (II) are due to spatial changes in the structure of (D), i.e. to the formation of intermediate layers which, by their increase in size, effect the (TS). As, during the eletrolysis, the area near the cathode becomes poorer in (I) and (II), an intermixture of the eletrolyte, an increase in temperature and a reduction of the current density favor a reduction of (CS) and an increase in (TS) in the (D), as these factors facilitate the access of (I) or (II) to the cathode. The so-called "leveling effect" of various electrolytes (Refs 17-21) is explained by the fact that near such spots where the diffusion is impeded (cracks, joints, indentation in the cathode surface) the solution also quickly becomes poorer in (I) and (II), whereby the current density rises and the metal deposition increases in these spots. There are 7 figures, 1 table, and 21 references, 8 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

Internal Stresses in Electrolytic Copper Deposits

SOV/76-33-6-27/44

SUBMITTED:

November 29, 1957

Card 3/3

ANISIMOV, A.F.; SAMARSKIY, A.G.; ALEKSEYEV, Yu.A.

Automatic control of the catalyst circulation system in a catalyst cracking unit. Thim.i tekh.topl. i masel 5 no.6:1-6 Je 60.

(MIRA 13:7)

1. Spetsial 'noye konstruktorskoye byuro po avtomatike v neftepererabotke i proizvodstve iskusstvennogo zhidkogo topliva. (Cracking process) (Catalysis) (Automatic control)

3/080/60/033/005/005/008

AUTHORS;

Burdina, S.M., Samartsev, A.G.

7

TITLE:

The Production of Galvanic Coatings on Titanium

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, No 5, pp 1141 - 1146

TEXT: The application of galvanic coatings on titanium in order to improve the surface properties of the metal and the outer aspect of the articles is difficult due to the presence of various titanium oxides on the metal surface. Methods for obtaining chromium, copper and nickel coatings with a good adhesion to the metal surface were investigated. Commercial pure titanium prepared by melting degasified titanium sponge was used in the experiments. For obtaining chromium coatings two electrolytes were used: 1. Cro₃ 300 g/l, H₂SO₄ 4 g/l, D_c = 95 - 100 a/dm², t = 80 - 83°C. 2. Cro₃ 150 g/l, H₂SO₄ 2 g/l, D_c = 95 a/dm², t = 90°C. Chrome-plating was carried out in two stages: first a deposit of 7 - 10 μ was applied, then the chrome-plated sample was subjected to thermal treatment in the vacuum, after which the final chrome-plating was made. The total thickness of the chromium deposit was 110 - 120 μ . Preliminary treatment in solutions of hydrochloric-acid showed

Card 1/2

The Production of Galvanic Coatings on Titanium \$\,980/60/033/005/005/008

good results. Prior to chrome-plating the treatment in 30 - 35% hydrochloric acid at 48 - 53°C in the course of 50 - 60 min produces satisfactory results. The electrolyte for copper-plating had the following composition (g/1): CuSO $_{\rm h}$ ·5H $_{\rm 2}$ O 250, H $_{\rm 2}$ SO $_{\rm h}$ 75; for nickel-plating (g/1): NiSO $_{\rm h}$ ·7H $_{\rm 2}$ O 140-200, Na $_{\rm 2}$ SO $_{\rm h}$ ·10H $_{\rm 2}$ O 80-160, NaCl 5-10, H $_{\rm 2}$ BO $_{\rm 3}$ 20-30. In the case of thermal treatment copper coatings 150 μ thick with good adhesion were obtained. There are 2 graphs, 3 photographs, 1 table and 7 references: 2 Soviet, 4 English and 1 Japanese.

SUPMITTED: May 4, 1959

Card 2/2

S/076/61/035/004/611/618 B106/B201

16 7400

1087 als 1043, 1208

Samartsev, A.G., and Andreyeva, N. V.

AUTHORS:

The formation process of precipitates of "black nickel"

TITLE:

Zhurnal fizicheskoy khimii, v. 35, no. 4, 1961, 892 - 899 PERIODICAL:

TEXT: "Black nickel" is the designation for black precipitates of a complicated composition (16-60% nickel, 7-45% zinc, 8-15% sulfur, 10-28% carbon, hydrogen, and oxygen), which are formed on the cathode in the electrolysis of solutions containing nickel-, zinc-, and ammorium salts, and rhodanate ions. Great practical importance is attached to this "black nickel", as it can be deposited on various metals as a compact jet-black coating. In continuation of previous papers on the solution of practical problems (Ref. 3: Chernoye mikelirovaniye, informatsionno-tekhnicheskiy listok No. 106 (679), LDNTP, L., 1954; Ref. 48 Optiko-mekhanicheskaya promyshlennost, No. 3, 65, 1957), new data are offered here regarding the formation process of "black nickel". The electrolyte solution contained 50 g/1 Niso4.7H20, 25 g/1 ZnSo4.7H20, 32 g/1 KCNS, and 15 g/1 (NH4)2So4, and had a pH 5. The cathods was a 6.4 cm stael sheet, the rear side of Card 1/5

s/076/61/035/004/011/018 B105/B201

The formation process of ...

which was insulated by celluloid lacquer. The experiments were performed at 20-0.200, and the cathode potential was measured by the conventional compensation method 5 minutes after adjusting the current. Results: The main characteristic feature of galvanic precipitates of "black nickel" consists in that they contain only a relatively small part of free nickel metal, distributed as very small, separate grains in the mass of the products of secondary electrode reactions. The precipitate exhibits electrical conductivity which is explained by the semiconductor properties of zinc sulfide and hydrated zinc oxide, which constitute the main components of the products of secondary electrode reactions. The color of "black nickel" is not caused by the content of dark-colored compounds, but is due to the structural characteristics of the precipitate. The black precipitate is formed after an abrupt rise of cathode polarization, not due to reaching the limiting current, but by a pessivation of the cathode surface. This is also proved by the fact that uniform bright nickel precipitates were obtained in a wide range of current densities in experiments with solutions containing only nickel- and ammonium salts. In this case no abrupt change took place in the cathode rolarization. An Card 2/5

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s/076/61/035/004/011/018 B106/B201

The formation process of ...

abrupt rise of polarization, however, occurred already at low current densities, if small amounts of a zinc salt were added. Immediately after this, the nickel deposition was reduced, and the hydrogen separation increased. These results are indicative of the fact that the cathode aurface is passivated by a layer of hydrated zinc oxide, which is an obstacle to the further growth of pure nickel grains. At the same time also the zinc sulfide resulting from the decomposition of rhodenate present in the solution is precipitated. The abrupt rise of cathode polarization leads to a stronger decomposition of rhodanate and thue to the enrichment of the precipitate with zinc sulfide. Because of its better electrical conductivity, the zinc sulfide attenuates the inhibiting effect of hydrated zinc oxide upon the diacharge of nickel ions. The rhodanate ions contained in the electrolyte reduce the cathode polarization, and thus the petential jump, considerably, Ammonium ions, owing to their buffer action and their ability to form stable complex compounds, uphold the deposition of the passivating layer of hydrated zinc oxide at the cathode. In the absence of the ammonium salt the cathode is much less passivated, and more pure nickel is deposited. The acidity of the electrolyte also has an effect upon the deposition of "black nickel": no secondary electrode reactions, and therefore, no black preci-

Card 3/5

8/076/61/035/004/011/018 B106/B201

The formation process of ...

pitates, either, appear in strongly acid selutions. Most probably, the processes taking place in the formation of the black precipitates at the cathode have a periodic character. Formation and development of nickel crystals alternate continuously, in every point of the cathode surface, with the deposition of secondary electrolysis products on these crystals. The chemical analysis of the precipitates was made by the collaborators of the Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Institute of Technology imeni Lensovet) A. D. Miller and R. I. Libina. There are 7 figures, 1 table, and 11 referencess 5 Saviet-bloc and 8 non-Soviet-bloc. The three most recent references to English language publications read as follows: U.S. Bur, Stand. Techn. Pape, N 100; J. G. Poor, Metal Finishing, 694, 769, 1943; S. Glasstone, J. Chem. Soc., 641, 1927.

SUBMITTED's

July 27, 1959

Card 4/5

S/080/61/034/011/016/020 D228/D301

AUTHORS:

Burdina, S.M., and Samartsev, A.G.

TITLE:

The nature and properties of the surface film formed on titanium during its etching in acids

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 11, 1961,

2566 - 2568

TEXT: In this work the aims of the authors were to ascertain the nature and certain properties of the surface film, formed on titanium during its etching in acid, and the conditions under which its disintegrates on being heated in a vacuum. Specimens of grade BT-1 (VT-1) metal with a round or square section were etched in 35 % HCl and 40 % H₂SO₄ at temperatures of 50° and 80° respectively, after which their surface layers were studied by electronographic and X-ray methods. Samples of metal with a natural oxide coating and powdered titanium hydride were similarly investigated for purposes of comparison. Examination of the roentgeno- and electronograms showed that the surface layer consists of titanium hydride; Card 1/2

S/080/61/034/011/016/020 D228/D301

The nature and properties of ...

its color and thickness appear to depend on the nature and concentration of the acid and on the etching conditions. Thus, etching in HCl for l hr. gives a film with a thickness of 15 - 20 μ as compared with one of only 3 - 5 μ for metal etched in H₂SO₄ for the same period. The authors consider the formation and solution of the hydride - when hydrogen is evolved - to occur simultaneously, in consequence of which, the layer's thickness reaches a certain, constant, critical value. The hydride film may serve as a base for the electrolytic application of chromium, nickel, or copper coatings, but these latter do not possess adequate cohesion unless they receive further heat treatment. Subsequent tests - involving the heating for 1 hr. of titanium specimens which were first coated with chromium and processed with HCl for 1 hr at 500 - were carrie! out in order to establish the conditions necessary for the formation of a diffusion layer at the chromium-titanium boundary. According to the results the hydride decomposes into hydrogen and titanium at 300°, and a diffusion layer of sufficient thickness to be detected microscopically only develops at 700°. There are 2 figures and 5 references: 1 Soviet-bloc and 4 non-Soviet-bloc. SUBMITTED: April 4, 1961 Card 2/2

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

ENT(m)/EPF(c)/ENA(d)/EMP(t)/EMP(z)/EMP(b) UR/0080/65/038/005/1033/1037 **53773-**65 ACCESSION NR: AP5014158 621.794+669.15

AUTHOR: Zelenova, A. T.; Samartsev, A. G.

TITLE: Effect of inhibitors on etching of 1Kh18N9T stainless steel, with acid mixtures

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 5, 1965, 1033-1037

44.9四周

TOPIC TAGS: etching inhibitor, corresion inhibitor, stainless steel, corresion, steel

ABSTRACT: The effect of agar-agar, dextrin, gelatin, and joiner's glue on chemical etching of 1Kh18N9T stainless steel in aqueous solutions of HNO3, HC1, and H2SO4 was studied. The etching tests were carried out for 10 minutes at 70 to .5°C. The rate of dissolution of the metal was measured gravimetrically and the polished steel surface was examined visually and with an FM-56 photometer. The surface microstructure was examined with an electron microscope. The addition of agar-agar or dextrin into the etching fluid does not affect either the rate of steel dissolution or the quality of the steel surface, and no surface smoothing is observed.

Card 1/2

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ACCESSION NR: AP5014158

Addition of joiner's glue or gelatin into the etching fluid reduces the rate of steel dissolution and smooths the surface somewhat but does not brighten the surface. The steel surface polishing is improved by adding certain acidic dyestuffs to the etching fluid. This improvement in polishing is also retained after addition to the etching fluid of colloidal dissolving inhibitors such as joiner's glue and gelatin. Apparently the acidic dyestuffs facilitate formation of a passive layer on the steel surface and thus create conditions for slow dissolution of all the steel surface in a highly uniform manner. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 31Jun63

THE REPORT OF THE PARTY OF THE

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 002

OTHER: 004

Card 2/2

GALANOV, I.G., otv. red.; MATLAKHOV, S.G., otv. red.; POLESIN, Ya.L., red.; BOGOMOLOV, A.I., red.; ZHELEZNYAKOVA, M.A., red.; ZHIDOVETSKIY, B.V., red.; ZIL'BERSHTEYN, I.A., red.; KANER, I.Ye., red.; KIYUYEVA, Ye.P., red.; KOZLOVA, Ye.I., red.; MAKAROV, A.D., red.; SAMARTSEV, A.I., red.; SOLOPKO, A.P., red.; TIKHONOV, V.A., red.; VOLKOVA, V.A., ved. red.

[Safety regulations in the gas industry; regulations obligatory for all ministries, departments, and organizations] Pravila bezopasnosti v gazovom khoziaistve; pravila obiazatel'ny dlia vsekh ministerstv, vedomstv i organizatsii. Perer. i dop. izd. Moskva, Nedra, 1965. 143 p. (MIRA 18:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

SAMARTIEV, A.R.

"Oxide Coations on Mesals", isd. AN SSSR (Transactions of the USSR Academy of Sciences)

"Research in Corrision of Metals (Isskedovaniya Po Korrosii Metallov)"
Published by * Inst. of Physical Chemistry, USSR Academy of Sciences, Moscow-1951.
Translation---A^TIC-79062-D
F-TS-8030.A/V.

SAMARTSEV, A.Ya. (g. Penza)

A green corridor. Put' 1 put. khos. no.1:11-13 Ja '57. (MLRA 10:4)

1. Nachal'nik Pensanskoy distantsii sashchitnykh lesonasashdeniy.
(Penza Province--Railroads--Snow protection and removal)
(Windbreaks, shelterbelts, etc.)

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

SAMARTSEV, A.Ya.

Mechanization of tree planting operations for snow protection. Put'i put.khoz. 4 no.7:40-41 J1 60. (MIRA 13:7)

1. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, g.Penza. (Railroads--Smow protection and removal) (Tree planting)

SAMARTSEV, Aleksandr Yakovlevich; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn. red.

[Green shelterbelts for roads] Dorogam - zelenye zaslony. Penza, Penzenskoe knizhnoe izd-vo, 1961. 94 p. (MIRA 14:11)

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

SAMARTSEV, A. Ya., zasluzhennyy ratsionalizator RSFSR

Complete mechanization of operations in improvement felling. Put' i put.khoz. 8 no.8:43-44 '64. (MIRA 17:9)

1. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, stantsiya Penza, Kuybyshevskoy dorogi.

ZHAKSYBAYEV, N.; FOMENKO, V.D.; ANTONOV, V.P.; SAMARTSEV, I.A.; VASIL'YEV, B.F.; YAGODNITSYN, M.A.; VENGER, M.S.

Inadequate methods of waste water analysis are retarding the improvement of the sanitary condition of reservoirs. TSvet. met. 35 no.3:86-87 Mr '62. (MIRA 15:4)

1. Direktor Zyryanovskogo svintsovogo kombinata (for Zhaksybayev).

2. Sekretar' partiynogo komiteta Zyryanovskogo svintsovogo kombinata (for Fomenko).

3. Nachal'nik obogatitel'noy fabriki Zyryanovskogo svintsovogo kombinata (for Antonov).

4. Nachal'nik tsentral'noy khimicheskoy laboratorii Zyryanovskogo svintsovogo kombinata (for Samartsev).

5. Nachal'nik byuro stochnykh vod Zyryanovskogo svintsovogo kombinata (for Vasil'yev).

6. Rukovoditel' metodicheskoy gruppy khimicheskoy laboratorii Zyryanovskogo svintsovogo kombinata (for Yagodnitsyn).

7. Gosudarstvennyy sanitarnyy inspektor po promyshlennoy gigiyene Vostochno-Kazakhstanskoy sanitarnoy epidemiologicheskoy stantsii (for Venger).

(Water—Analysis) (Reservoirs)

SAMARTSEV, I.T.

Creating album-collections of rocks and minerals. Razved. i okh. nedr. 30 no.5:48 My '64. (MIRA 17:10)

1. Berezovskiy rudnik im. S.M. Kirova, Sredniy Ural.

SAMOKHIN, A.F., dotsent, kand.tekhn.nauk; SAMARTSEV, L.G., red.;
POPOVA, N.A., tekhn.red.

[The river Don and its tributaries; popular science essay]
Reka Don i ee pritokt; nauchno-populiarnyi ocherk. Rostovna-Donu. Izd-vo Rostovskogo univ., 1958. 117 p. (MIRA 12:8)

(Don River)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920011-3

5.3610

78265 sov/79-30-3-17/69

AUTHORS:

Ogloblin, K. A., Samartsev, M. A

TITLE:

Reaction of Isobutylene Nitrosochloride With Amines.

Synthesis of a -Aminoaldehydes

PERIODICAL:

Zhurnal obshchey khimil, 1960, Vol 30, Nr 3,

pp 805-820 (USSR)

ABSTRACT:

Isobutylene nitrosochloride was reacted with methyl-

ethyl-, n-propyl-, n-butylamine, 2-aminobutane,

2-aminohexane, benzylamine, dimethyl- and diethylamine.

C -Aminoaldoximes and their salts were the main reaction products. The general scheme of the reaction is:

 $(C_4H_8NOCI)_2 + 2NHRR' \longrightarrow 2 CH_3 CCH=NOH$

The physical constants of the obtained lpha -aminoaldoximes

are shown in Table 1. Aqueous and alcoholic solutions

of CL -aminoaldoximes produce a color reaction with salts of heavy metals. The presence of the secondary

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Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of α -Amino-aldehydes

78263 SOV/79-30-3-17/69

amino group in the reaction products of primary amines was confirmed by formation of nitrosoamines in reaction of Ω -aminoaldoximes with nitrous acid. The obtained oximes can be reduced to diamines over skeletal nickel in alcohol:

$$\begin{array}{c} \text{CH}_{3} \\ \text{CH}_{3} \\ \text{CH}_{3} \end{array} \xrightarrow{\text{C}} \begin{array}{c} \text{N}(\text{CH}_{3})_{2} \\ \text{CH}_{3} \\ \text{CH}_{3} \end{array} \xrightarrow{\text{C}} \begin{array}{c} \text{N}(\text{CH}_{3})_{2} \\ \text{CH}_{2} \\ \text{NH}_{2} \end{array}$$

To avoid formation of oximes during the alkalization of the hydrolysis products of aminoaldoximes, sodium nitrite was introduced into the solution to decompose hydroxylamine. Aminoaldehydes were extracted with ether. The yield and physical constants of the obtained aldehydes are shown in Table 2. Compound (X) was not separated, but two corresponding dimers were obtained ((XVIII), mp 39.5-41 and (XIX), bp 77.5-79.5 (13 mm), n_D^{20} 1.4571).

Card 2/9

Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of CL-Amino-aldehydes

Aminoaldehydes (XI), (XII), and (XIII) were obtained in monomer form in low yields. The basic products in this case were oxides (XX), bp $42-43^{\circ}$; (XXI), mp $178-178.5^{\circ}$; and (XXII) formed as a result of removal of water from compound (A).

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APPROVED FOR RELEASE: 08/25/2000

Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of α -Amino-aldehydes

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Dimers (XIX)-(XXII) are stable in organic solvents, but in an aqueous acidified medium they are present, at least partially, in the form of monomolecular aminoaldehydes. The reaction of dimer (XXI) with an alcoholic solution of NH2OH; HCl yields the hydrochloride of aminoaldoxime (III). The majority of dimers reduce both Tollen's and Fehling's agent. On the basis of this, it is assumed that there is an equilibrium between the monomer and dimer forms of CL-aminoaldehydes.

Card 4/9

CIA-RDP86-00513R001446920011-3"

Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of CL-Amino-aldehydes

$$\begin{array}{c|c} \text{CH}_3 & \text{CH} & \text{R} & \text{HE}_{20}(\text{He}) \\ \text{CH}_3 & \text{I} & \text{O} & \text{CH}_3 \\ \text{CH}_3 & \text{I} & \text{O} & \text{CH}_3 \\ \text{R} & \text{CH} & \text{CH}_3 & \text{CH}_3 \\ \end{array} \begin{array}{c} \text{CH}_3 & \text{CH}_3 \\ \text{CH}_3 & \text{R} & \text{CH}_3 \\ \text{OH} & \text{O} & \text{CH}_3 \\ \end{array} \begin{array}{c} \text{CH}_3 & \text{CH}_3 \\ \text{CH}_3 & \text{NaoH} \end{array} \begin{array}{c} \text{CH}_3 & \text{CH}_3 \\ \text{CH}_3 & \text{CH}_3 \\ \text{OH} \end{array}$$

Heating the hydrolysis product of (VII) with concentrated $\rm H_2SO_4$ at $180\text{--}220^{\circ}$ yields a small amount of compound (XXIII), mp of its picrate, 212-213°.

. Card 5/9

Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of α -Aminoaldehydes

78263 SOV/79-30-3-17/69

The reaction of isobutylene nitrosochloride with NaHS yields compounds (XXV) (yield 10%), mp $131.5-132^{\circ}$; and (XXVI) (yield 16%), mp $149.5-150.5^{\circ}$, instead of the expected (XXIV).

There are 1 figure; 2 tables; and 24 references, 7 Soviet, 5 U.S., 5 U.K., 7 German, 2 French. The 5 U.S. references are: Balenovic, K., Bregant, N., Cerar, D., Fles, D., J. Org. Chem., 18, 297 (1953); U.S. Patent 2494859; Mellor, J., Inorg. \sigma Theor. Chem., 8, 289 (1947); Inorganic Synthesis, N.Y., 4,48 (1953); Iffland, C., Teh-Fu-Uen, J. Am. Chem. Soc., 76, 4180 (1954).

Card 6/9

	Table eldowb	i. Re:	etion pes cominer.	sturdin of	' 1::0b	utylone	nitro	:io-	
	CH ₁ CCH SOH CH ₂ 1 N R R		2	72 N		5		6	
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(f) (t1) (111)	CH ₃ C ₂ H ₅ B-C ₃ H ₇	11	98199 108108.5 78.579.5 7071	24,55 21,62 19,50, 19,57	24.12 21.53 19.43	115.1, 116.6 129.5, 130.4 143.1, 143.2 158, 158.3	146.1 130.4 144.2 158.2	81 68 82 67	
((V) (V)	$\begin{array}{c c} & \text{iC}_1\Pi_9 \\ & \text{CH}_3 \\ & \text{C}_2\Pi_5 \end{array}$	11	4849	17.39, 17.48	17.71	158.2, 158.4 185.2, 186.3	158.2	59 59	

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2 R R				MR_D		Ь		7		
	it it'	п' 3	n)a	તંુ≎	4	5	4.	5	7	9
(XI) (XII) (XIII) (XIV) CH3	CH ₃ H C ₃ H ₅ H C ₄ H ₅ CH ₃ CH C ₄ H ₅ CH ₃ CH C ₄ H ₅ CH ₃ CH		1.4583 1.4309 1.4364	0,9398 0,9282 0,8659 0,8601 0,8817 0,8653	33.16 42.12 42.81 52.08 33.27 42.85	33.44 42.72 42.56 51.90 33.58 42.87	109.3 129.1, 130.5 140.9, 142.8 146.1, 147.0 171.1, 172.0 118.5, 119.2 143.7, 144.2	115.1 129.1 143.2 143.2 171.2 115.1 143.2	8 2 15 68 33 51 67	60 18 57 32

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920011-3

Reaction of Isobutylene Nitrosochloride With Amines. Synthesis of -Amino-

78263 SOV/79-30-3-17/69

aldehydes

Key to Table 1. (1) Nr of compound; (2) mp; (3) found; (4) calculated; (5) neutral equivalent; (6) yield (in %), based on nitrosochloride.

Key to Table 2. (1) CL-Aminoaldehydes; (2) Nr of compound; (3) bp (pressure in mm); (4) found; (5) calculated; (6) neutral equivalent; (7) yield (in %); (8) aldehyde; (9) dimer.

ASSOCIATION:

Leningrad State University (Leningradskiy gosudarstvennyy

universitet)

SUBMITTED:

March 31, 1959

Card 9/9

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920011-3

SAMARTSEV, M.A.; OGLOBLIN, K.A.

Interaction of nitrosvl chloride with unsaturated compounds. Part 17:

Interaction of nitrosvl chloride with unsaturated compounds. Cis-trans isomerism of dimers of aliphatic chloronitroso compounds. Zhur. org. khim. l no.1:31-37 Ja '65.

1. Leningradskiy gosudarstvennyy universitet.

OGLOBLIN, K.A.; SAMARTSEV, M.A.

Reaction of nitrosyl chloride with unsaturated hydrocarbons.
Part 8: Reaction with 2-butene. Zhur.ob.khim. 33 no.10:3257(MIRA 16:11)
3262 0 163. 3262 0 163.

1. Leningradskiy gosudarstvennyy universitet.

SAMARTSEV, M.A.; OGLOBLIN, K.A.

Preparation of cis- and trans-isomers of dimeric chloronitroso compounds. Zhur.ob.khim. 34 no.1:361 Ja '64. (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet.

OCLOBLIN, K.A.; SAMARTSEV, M.A.

Interaction of nitrosyl chloride with unsaturated hydrocarbons. Part ?: Reaction with 2-pentene. Zhur. ob. khim. 34 no. 5: 1525 1530 My 164.

Interaction of nitrosyl chloride with unstaurated hydrocarbons.

Part 13: Reaction with 2,2-dimethyl-3-penter. [Mika 17:7]

1. Leningradikiy gosudarstvennyy universitet.

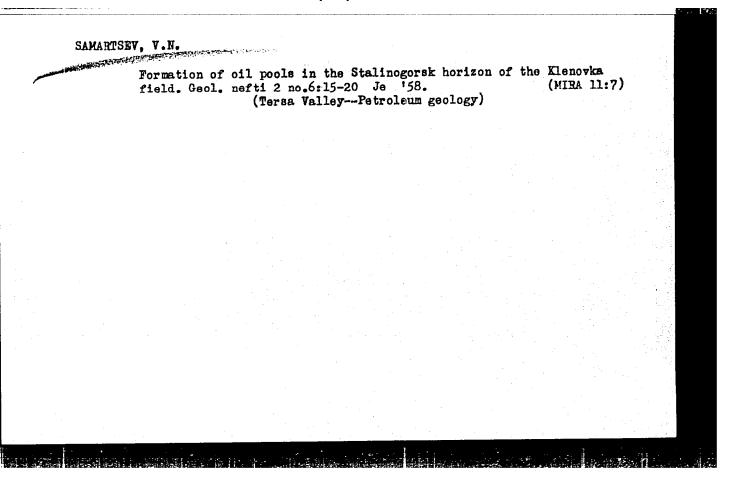
- 1. SAMARTSEV, M. I.
- 2. USSR (600)
- 4. Swine--Feeding and Feeding Stuffs
- 7. Using ground hay in feeding swine for bacon and lard, Sots. zhiv., ll, No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

SAMARTSEV V.N.

Tends in further exploration of the terrigenous Devonian in the Klenovka uplifts of Volgograd Province. Neftegaz. geol. i geof. (MIRA 18:7)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.



SAMARTSEV, V.N.

Effect of geological conditions on the production of an individual pool in a multisone reservoir. Geol.nefti i gaza 4 no.7:12-14 Je 160. (MIRA 13:8)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut. (Stalingrad Province--Oil fields--Product on methods)

SAMARTSEV, V.N. Prospecting for oil and gas pools and the efficiency of developing an oil fringe. Razved. i okh. nedr 27 no.10:29-31 0 '61.

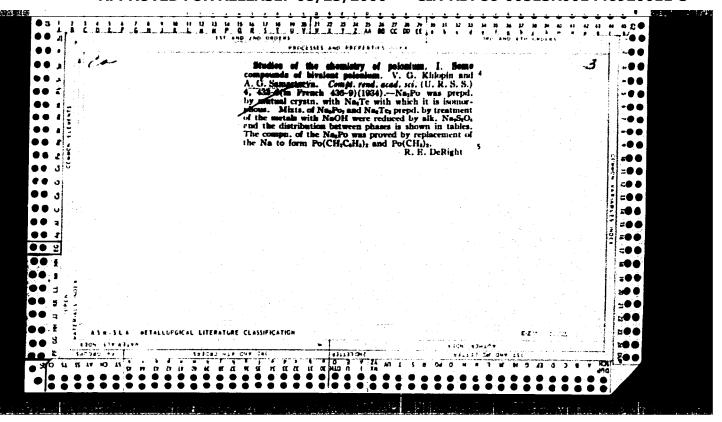
(MIRA 15:3)

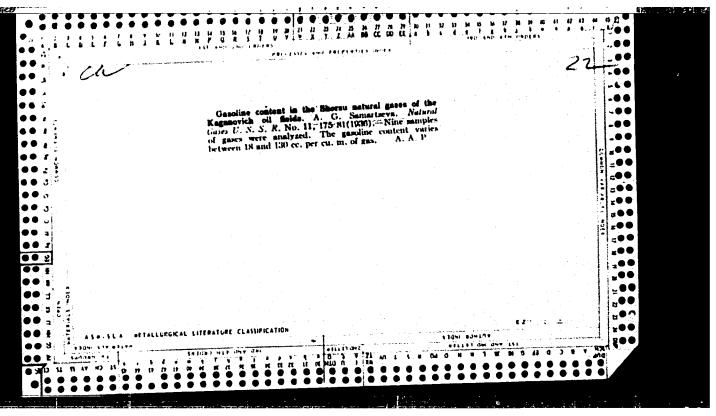
1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Oil reservoir engineering)

SAMARTSEY YOU

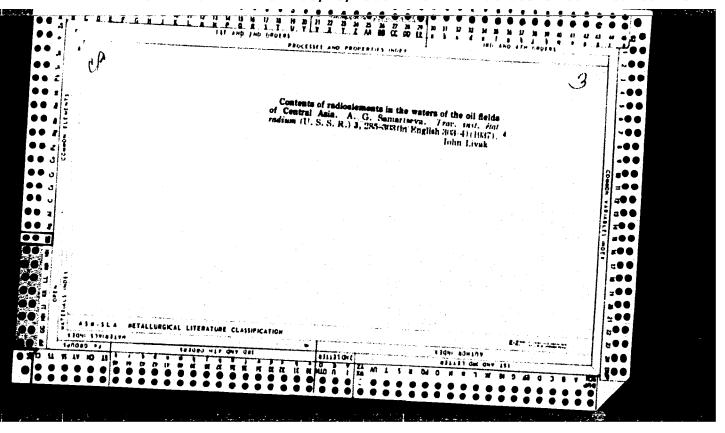
Our appeal to scientists and engineers. NTO no.6:23-25 Je 59. (MIRA 12:9)

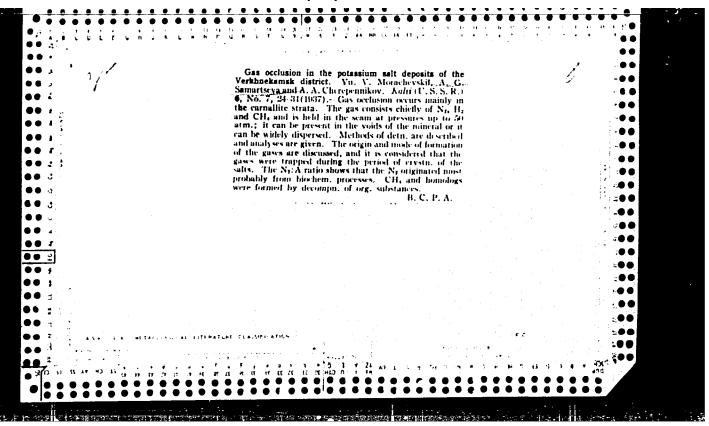
1. Sekretar' Kuybyshevskogo obkoma Vsesoyuznege Leninskogo Kommunisticheskogo soyuza molodezhi (VLKSM). (Socialist competition)

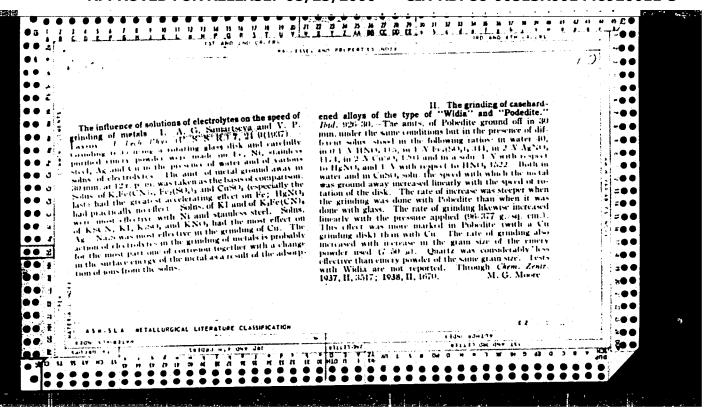


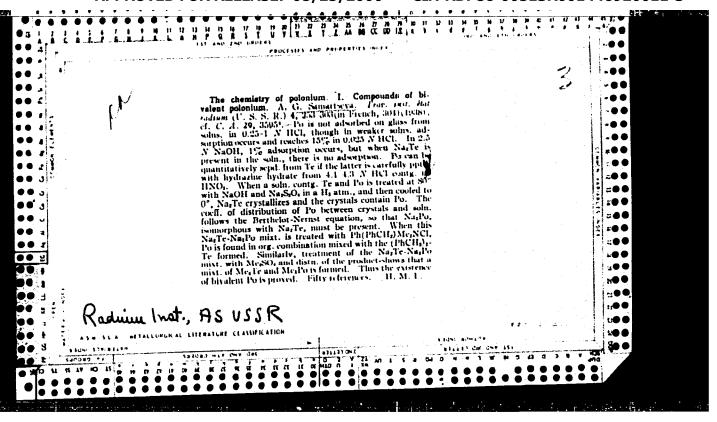


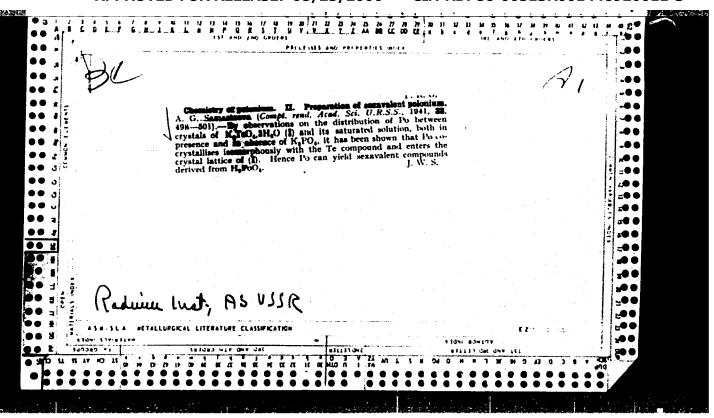
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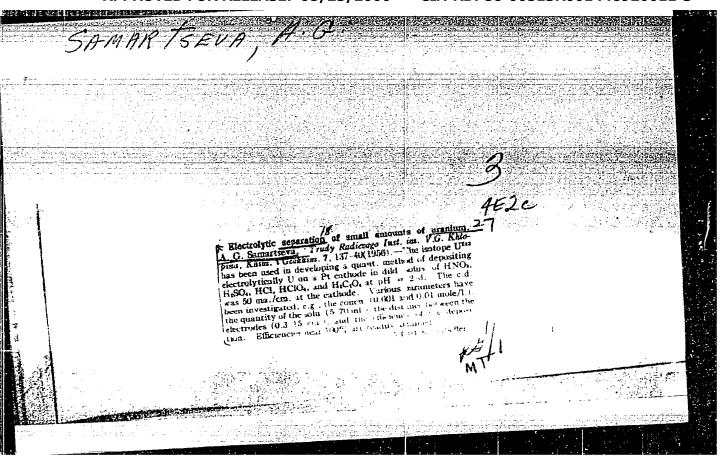












SAMARTSEVA, A. G., (Radium Inst im V. G. Khlopina AS USSR)

"Electrolytic Separation of small quantities of Uranium, Neptunium and Plutonium"

Isotopes and Radiation in Chemistry, Collection of papers of 2nd All-Union Sci. Tech. Conf. on Use of Radioactive and Stable Isotopes and Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380yp.

This volume published the reports of the Chemistry Section of the 2nd AU Sci Tech Conf on Use of Radioactive and Stable Isotopes and Radiation in Science and the National Economy, sponsored by Acad Sci USSR and Main Admin for Utilization of Atomic Energy under Council of Ministers USSR Moscow 4-12 Apr 1957.

5/186/62/004/005/001/009 E111/E435

AUTHOR:

Study of the adsorption of Pu (IV) on polished platinum

TITLE: PERIODICAL: Radiokhimiya, v.4, no.5, 1962, 526-531

Since the adsorption of tetravalent plutonium on platinum in some circumstances reaches very high values, its study is of practical as well as theoretical interest. Therefore the author studied this process, as well as desorption and the effect of other ions, in more detail than available from the scanty literature. He used Pu^{239} containing 0.7 to 0.8% ($Pu^{238} + Am^{241}$), the working solutions being contained in a mainly platinum apparatus with a working surface of about 100 cm2. Hydrogen-ion concentration that of the plutonium being covered the range 10-1 to 10-12 M, 4×10^{-9} M. Adsorption increased to a maximum of 98% as the pH was reduced to 1.3-3.5; at pH values over 4 adsorption decreases, reaching a minimum of about 30% at pH = 7.8. Desorption studies with the same pH values showed that at pH > 2.5 the adsorption is Adsorption is almost completely prevented by the presence of tetravalent zirconium ions at a concentration of Card 1/2

S/186/62/004/005/001/009 E111/E435

.Study of the adsorption ...

 $10^{-4}\,\mathrm{M}$, whereas it is unaffected by monovalent ammonium or bivalent lanthanum and yttrium ions at the same concentration. If the solutions contain $\mathrm{H}_2\mathrm{O}_2$ at a concentration of $10^{-2}\,\mathrm{M}$ the adsorption rises to 97% even in very weakly acid and neutral solutions. There are 5 figures and 2 tables.

SUBMITTED: August 10, 1961

Card 2/2

S/186/62/004/006/002/009 E075/E433

AUTHOR: Samartseva, A.G.

Adsorption of Pu (IV) on glass and quartz

PERIODICAL: Radiokhimiya, v.4, no.6, 1962, 647-655

TEXT: The dependence of the adsorption on pH for three different concentrations of plutonium (1 x 10⁻⁸, 1 x 10⁻⁹ and 15 x 10⁻¹⁰ M) was studied. In the study of the adsorption of tetravalent plutonium on glass and quartz 239pu containing tetravalent plutonium on glass and quartz discs and glass vessels 0.7% of (238pu + 241Am) was used. Quartz discs and glass vessels with surface areas of 9.8 cm² and 98 cm² respectively were used as adsorbents. The coefficient of adsorption was determined as a adsorbents. The coefficient of adsorption was determined as a adsorbents. It was found that with decreasing pH the 1 ml of the solution. It was found that with decreasing pH the adsorption of Pu(IV) on glass and quartz increases, with the adsorption of a sharp maximum. The adsorption on quartz is higher formation of a sharp maximum. The adsorption curves are identical than on glass, but the shape of the adsorption curves are identical for both materials. With decreasing concentration of plutonium in solution from 10-0 to 10-10 M the maximum of adsorption shifts towards higher pH values (from 2.8 to 3.6). This shift of the Card 1/2

Adsorption of Pu(IV)

S/186/62/004/006/002/009 E075/E433

maximum and further descent of the adsorption curve is explained by the formation of true colloids of plutonium in the solution due to attainment of the solubility product for plutonium hydroxide. The desorption of Pu(IV) from glass with solutions of the same PH at which its adsorption was carried out, as well as desorption with 0.5 N nitric acid, was studied. In solutions with PH and PH and PH and PH and PH and PH and PH adsorption process was observed, while in solutions with PH and PH are process is less reversible. On the basis of comparison of general characteristics and the presence of sharp maximum on the adsorption curves and their dependence on PH for Pu(IV), Pu(IV) and Pu(IV) it is considered that at PH and Pu(IV) and Pu(IV) it is considered that at PH are 8 figures and 4 tables.

SUBMITTED: August 5, 1961

Card 2/2

"APPROVED FOR RELEASE: 08/25/2000

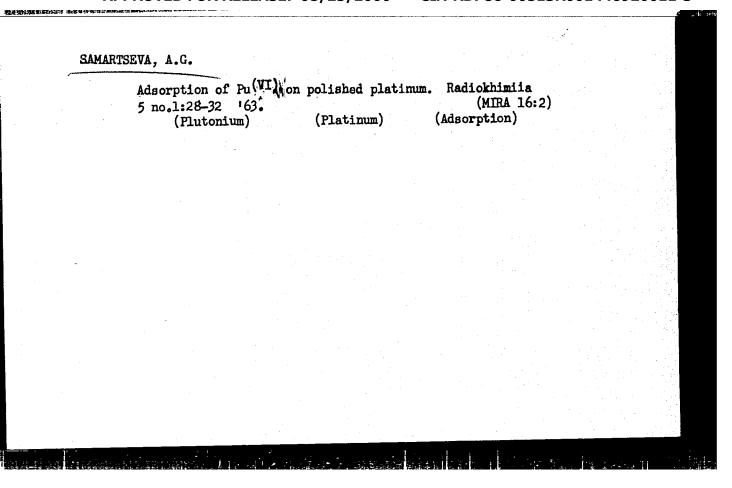
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SAMARTSEVA, A.G.

Electrodeposition of Am and Cm from aqueous solutions on a platinum cathode. Radiokhimita 4 no.6:696-700 *62.*

(MIRA 16:1)

(Americium plating) (Curium plating) (Electrodes, Platinum)



SAMARTSEVA, A.G.

Study of the adsorption of uranium on polished platinum.

Radiokhimiia 6 no.2:230-237 '64. (MIRA 17:6)

NIKOLAYEV, D.S.; LAZAREV, K.F.; KORN, O.P.; YAKUNIN, M.I.; DROZHZHIN, V.M.; SAMARTSEVA, A.G.

Isotopic composition of uranium in the waters and ediments of the Black and Azor Seas. Dokl. AN SSSR 165 no.1:187-89 N . . (MIRA 18:10)

1. Submitted April 10, 1965.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920011-3

SAMARUKOV, S. I., Engineer

Cand Tech Sci

Dissertation: "Multiple Roller Chains and Their Application in Well-Drilling Equipment."

27/6/50

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